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TITLE : FUSED CARBONATE FUEL CELL

ABSTRACT : PURPOSE: To stabilize the electrolyte holding performance for a long time by using at least two kinds of mixtures containing lithium aluminate among lithium aluminate, potassium titanate and lithium titanate for an electrolyte carrier.

CONSTITUTION: The decrease in the electrolyte holding performance of an electrolyte carrier comprising at least two kinds of foreign materials containing lithium aluminate in a fused carbonate solution at high temperature is far small compared with the decrease with time in the electrolyte holding performance of an electrolyte carrier comprising a single material. By an arrangement that fine particles comprising two or more different kinds of materials are uniformly mixed, the growth of particles is prohibited because sintering between these foreign materials rarely occur resulting in the stable electrolyte holding performance for a long time. Here the constituent particles of the electrolyte carrier have a size of 10 μ m or less.

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